

gion," near Lake Superior, which was referred to a Committee, consisting of Prof. Lesley, Dr. Genth, and Mr. Lyman.

Mr. Eli K. Price presented for record a notice of the Aurora of February 4th.

Mr. Chase communicated a note of new relations between the distances of the Moon from the Earth, and those of Jupiter and the Earth from the Sun.

Pending nominations, Nos. 689, 690, 691, 692, were read, And the meeting was adjourned.

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*Stated Meeting, April 19th, 1872.*

Present, 25 members.

Vice-President, Mr. FRALEY, in the Chair.

A letter, acknowledging receipt of Diploma, was received from Major R. S. Williamson, U. S. C. S., San Francisco, April 10th, 1872.

A letter, acknowledging the receipt of Transactions XIV. iii., and Proceedings No. 87, was received from the London Society of Antiquaries, Somerset House, March 28th, 1872.

Donations for the Library were received from Dr. Carl Neuman, of Leipzig; SS. Mantegazza and Finzi, of Florence (Archivis Anthro. e Eth.); M. Delesse, of Paris; the Revue Politique, London Nature, R. Geological Society of Ireland, Rev. Samuel Houghton, the Boston Society of Natural History, American Numismatic and Archæological Society, Prof. O. C. Marsh, of New Haven; American Journal of the Medical Sciences, News and Library, Penn Monthly, American Iron and Steel Association, Dr. Elder, Mr. Eli K. Price, Mr. George Davidson, the Coast Survey, Smithsonian Institution, and University of Virginia.

Prof. J. F. Fisher mentioned the death of the distinguished Genevan, M. Pictét de la Rive.

The Committee to which was referred the map and paper on a Coal District in Southern Virginia, reported recom-



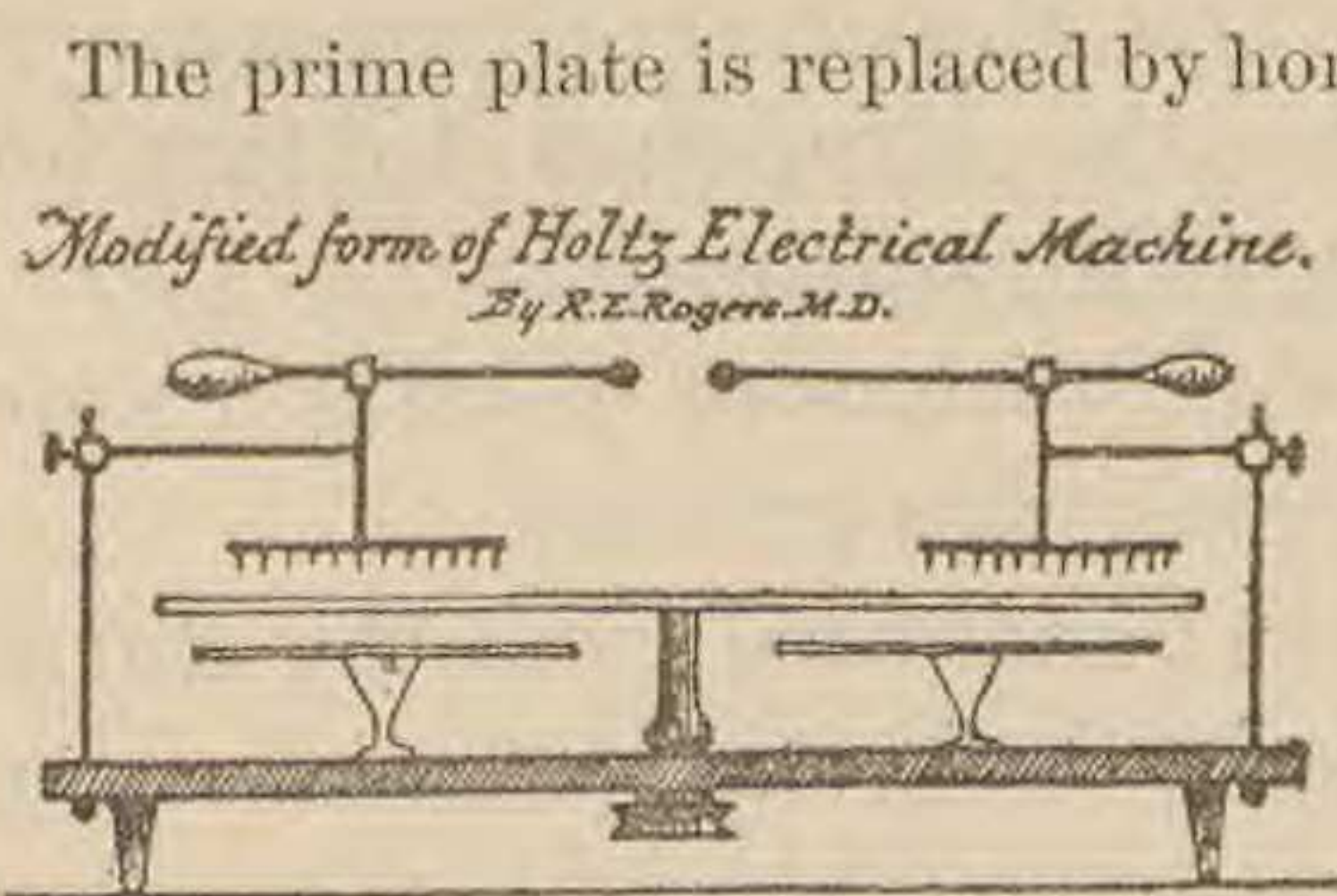
mending the publication of the same in the Transactions; which was so ordered.

The Committee to which was referred the paper on the Magnetism of Rocks, &c., by Major T. B. Brooks, reported that, since the Legislature of Michigan had recently made an appropriation for the publication of the whole Report of the Survey of Major Brooks' District, they recommend that the Secretaries be requested to prepare an abstract notice of the paper for the Proceedings. The report was concurred in.

Prof. Chase, according to notice given, gave an explanation of his method of estimating the Sun's mass and distance by the energy of flames, with diagrams and tables.

Prof. Persifor Frazer, Jr., communicated the results of his spectroscopic observation of the late Aurora.

Dr. R. E. Rogers exhibited the capacities of a fine Holtz Electrical Machine, and described his proposed modification of its form for purposes of instruction.



The prime plate is replaced by horizontal plates, laid upon wine glasses, or upon removable rubber standards. The rotating plate is made to rotate horizontally over them, its axis passing vertically downward through the table, the driving wheel being underneath. Two standards carry the combs, etc., and can be swung round out of the way. Every part of the machine can be removed in a charged state, to be tested and compared with its

condition before removal.

The Secretary exhibited a water-color picture of a geological sectional model of Morrison's Cove, in Middle Pennsylvania, painted by Mr. J. W. Harden, C. and M. Engineer, of Philadelphia, and invited attention to the highly artistic style and beauty of the work.

Pending nominations, Nos. 689 to 692 were read, spoken to, and balloted for. New nominations, Nos. 693 and 694, were read. There being no further business, the ballot-boxes



were scrutinized by the presiding officer, and the following gentlemen declared duly elected Members of the Society:

M. Jean Baptiste Léon Say, Prefect of the Seine, Paris.

Mr. Lorin Blodget, of Philadelphia.

Dr. D. Hayes Agnew, of Philadelphia.

Mr. Adolph E. Borie, of Philadelphia.

And the meeting was adjourned.

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*Stated Meeting, May 3d, 1872.*

Present, 18 members.

Vice-President, Prof. CRESSON, in the Chair.

A letter accepting membership was received from Dr. D. Hayes Agnew, dated 1611 Chestnut Street, Philadelphia, April 22, 1872.

A Circular Letter, signed by the Mayor of Strasburg and others, requesting donations to the Municipal Library of that city, destroyed August 24, 1870, was read.

On motion, the request of Prof. Stevenson, to print a note to his Memoirs in the Transactions, was granted.

Donations to the Library were announced from the Royal Academies at Berlin and Brussels, the Geographical Society and Political Review of Paris, London Nature, the Canadian Naturalist, Old and New, Silliman's Journal, American Chemist, Prof. Mayer, the Franklin Institute, College of Physicians, Pennsylvania Historical Society, and Dr. Hayden.

The death of John P. Brown, a member of the Society, at Constantinople, on the 28th ult., was announced by the Secretary.

The death of Dr. W. W. Gerhard, a member of the Society, at his residence, 1206 Spruce Street, Philadelphia, April 28th, aged 63, was announced by the Secretary.

Dr. Rogers explained to the members present his improved